Technical Sessions (Wednesday Morning, September 19)

Wednesday Morning (September 19) 10:10 - 12:10

Hydraulic Turbines 9 (RY202)

Chairs: Mr. Sadao Kurosawa (Toshiba Corporation, Japan), Dr. Denis Chirkov (Institute of Computational Technologies Siberian Branch of Russian, Russia)

IAHR2018-153 **"Fluid-structure simulations of the stochastic behavior of a medium head Francis turbine during startup",** Jean-Francois Morissette (Hydro-Quebec, Canada), Jonathan Nicolle (Hydro-Quebec, Canada)

IAHR2018-156 **"Evaluation on Sediment Rrosion of Pelton Turbine Flow passage component",** Juan Liu (China Institute of Water Resources and Hydropower Research, China), Jiangcheng Yu (China Institute of Water Resources and Hydropower Research, China), Cuiwei Jiang (China Institute of Water Resources and Hydropower Research, China)

IAHR2018-162 **"Experimental Investigation of a High Head Francis Turbine Model During Shutdown Operation ",** Rahul Goyal (Grenoble-INP, France), Bhupendra K Gandhi (Indian Institute of Technology Roorkee, India), Michel J. Cervantes (Lulea University of Technology Sweden, Sweden)

IAHR2018-164 **"Pressure Fluctuation Test and Vortex Observation in Francis Turbines Draft Tube",** Lei Zhu (China Institute of Water Resources and Hydropower Research, China), Xiaochao Meng (China Institute of Water Resources and Hydropower Research, China), Jianguang Zhang (China Institute of Water Resources and Hydropower Research, China), Ying Chen (China Institute of Water Resources and Hydropower Research, China), Haiping Zhang (China Institute of Water Resources and Hydropower Research, China), Wanpeng Wang (China Institute of Water Resources and Hydropower Research, China), Li Lu (China Institute of Water Resources and Hydropower Research, China)

IAHR2018-166 **"Optimum design of J-Groove for a bulb turbine model to suppress swirl flow in the draft tube",** Viet Luyen Vu (Mokpo National University, Korea), Zhenmu Chen (Mokpo National University, Korea), Young-Do Choi (Institute of New and Renewable Energy Technology Research, Mokpo National University, Korea)